

 Product Number	Drawing Compounds		Straight Oil		Soluble Oil		Semi-Synthetic			Synthetic			Additives	
	Metal Medic 7322	Versadraw 6980	Metal Medic 7208	Micro-low 80	Versalube 6909T	Versakut 6920	Versakut 6951	Versakut 6970	Versakut 1170D	Metal Medic 7224	Metal Medic 7227	Metal Medic 7234D	Versakut 6935	Machine Klean XL
Concentration Data														
Base Oil % - Mineral	28	5	90	90	61	62	41.5	16	16	0	0	0		
Lube Polymer %	0	0	0	0	0	0	0	0	0	0	8	5		
Other Lube %	10	15	10	9	7.5	12.2	28	2.6	3.7	2	0	2		
Chlorine (from Chlorinated Parffin %)	7	25	0	1	0	2-Jan	0	0	1.2	3.5	0	0		
Coolant Data														
Type	Emulsion	Emulsion	Straight oil	Straight oil	Micro Emul	Micro Emul	Micro Emul	Micro Emul	Micro Emul	Solution	Solution	Solution	pH up	Cleaner
pH Range - In Use	8.3-9.3	9.1-10.1	NA	NA	9.0-10.0	9.0-10.0	9.5-10.5	9.0-10.0	9.0-10.0	9.0-10.3	9.4-10.4	8.6-10.0		9.5-10.5
Refractometer Factor	ND	ND	NA	NA	1.1x brix	1.0 brix	1	see chart	see chart	brix x 3.3	brix x 5	brix x 4.3		
Concentration (%) Range	10.0-50.0	10.0-50.0	100	100	2.0-15.0	5.0-20.0	2.0-8.0	2.0-15.0	2.0-15.0	2.0-15.0	2.0-15.0	2.0-15.0		5.0-10.0
Refractometer (% Brix) Range	ND	ND	NA	NA	2.0-15.0	5.0-20.0	2.0-8.0	2.0-15.0	2.0-15.0	2.0-10.0	2.0-10.0	2.0-10.0		
Typical Initial Fill - Refract reading	ND	ND	NA	NA	8	10	8	5	5	3	2	2		
Typical Top-Off - Refract reading	ND	ND	NA	NA	4	5	4	2	2	1	1	1		
Application Data / Properties														
Machine Cleanliness	★★	★★	★★	★★	★★	★★	★★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
Foam Control	★★★	★★★	n/a	n/a	★★★	★★★★★	★★★	★★★	★★★★	★★★	★★★★	★★★★		★★★★
Suitability for Hard Water >180ppm	conditional	conditional	n/a	n/a	★★★	★★★	★★★★	★★★★	★★★★	★★★	★★★	★★★		
Machining Hard Metals/Tough Alloys	n/a	n/a	n/a	n/a	★★	★★★	★★★★	★★★★	★★★★	conditional	conditional	conditional		
Machining Soft Metals/Aluminum	n/a	n/a	n/a	n/a	conditional	conditional	★★★★	★★★★	★★★★	conditional	conditional	conditional		
Steel/Cast Iron	n/a	n/a	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★		
Aluminum	n/a	n/a	n/a	n/a	conditional	conditional	★★★★	conditional	conditional	conditional	conditional	conditional		
High Copper & Zinc Containing Alloys	n/a	n/a	n/a	n/a	conditional	conditional	★★★★	conditional	conditional	conditional	conditional	conditional		
Grinding <200 Grit Wheel	n/a	n/a	n/a	n/a	n/a	No	conditional	conditional	conditional	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Grinding >200 Grit Wheel	n/a	n/a	n/a	n/a	n/a	No	conditional	conditional	conditional	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Fair-★★ Good-★★★ Better-★★★★ Best-★★★★★														